

CLAIMS

1. A method for generating an extensible markup language (XML) test result file, comprising the operations of:

receiving a key parameter and a value parameter, wherein the key parameter
5 relates to a tag;

generating a first string based on the key parameter and the value parameter, wherein the first string includes a first beginning tag and a first ending tag based on the key parameter, and wherein the first string includes the value parameter positioned between the first beginning tag and the first ending tag; and

10 inserting the first string into a test results file storing a second string having a second beginning tag and a second ending tag, wherein the first string is inserted between the second beginning tag and a second ending tag.

2. A method as recited in claim 1, wherein the first beginning tag and the
15 first ending tag are based on a document type definition (DTD).

3. A method as recited in claim 1, further comprising the operation of creating a test results hash table that stores key parameters related to the test results file.

4. A method as recited in claim 3, further comprising the operation of generating a file pointer tree having a plurality of nodes, each node referenced by a node pointer in the test results hash table.

5 5. A method as recited in claim 4, wherein each node stores a begin value and an end value related to a particular key.

6. A method as recited in claim 5, wherein the begin value indicates a file position after a corresponding beginning tag related to the particular key, and wherein the
10 end value corresponds to a file position after a corresponding ending tag related to the particular key.

7. A method as recited in claim 6, wherein the begin value and the end value facilitate inserting the first string into the second string.

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8. A computer program embodied on a computer readable medium for generating an extensible markup language (XML) test result file, comprising:

a code segment that receives a key parameter and a value parameter, wherein the key parameter relates to a tag;

a code segment that generates a first string based on the key parameter and the value parameter, wherein the first string includes a first beginning tag and a first ending tag based on the key parameter, and wherein the first string includes the value parameter positioned between the first beginning tag and the first ending tag; and

5 a code segment that inserts the first string into a test results file storing a second string having a second beginning tag and a second ending tag, wherein the first string is inserted between the second beginning tag and a second ending tag.

9. A computer program as recited in claim 8, wherein the first beginning tag
10 and the first ending tag are based on a document type definition (DTD).

10. A computer program as recited in claim 8, further comprising a code segment that creates a test results hash table for storing key parameters related to the test results file.

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11. A computer program as recited in claim 10, further comprising a code segment that generates a file pointer tree having a plurality of nodes, each node referenced by a node pointer in the test results hash table.

12. A computer program as recited in claim 11, wherein each node stores a begin value and an end value related to a particular key.

13. A computer program as recited in claim 12, wherein the begin value 5 indicates a file position after a corresponding beginning tag related to the particular key, and wherein the end value corresponds to a file position after a corresponding ending tag related to the particular key.

14. A computer program as recited in claim 13, wherein the begin value and 10 the end value facilitate inserting the first string into the second string.

15. A system for generating an extensible markup language (XML) test result file, comprising:

an application program that includes application testing instructions, the 15 application testing instructions capable of generating test result data;

an XML reporter object in communication with the application program, wherein the XML reporter object receives the test result data from the application program, and wherein the XML reporter object processes the test result data to generate an XML based string; and

an XML test results file in communication with the XML reporter object, wherein the XML reporter inserts the XML based string into the XML test results file.

16. A system as recited in claim 15, wherein the XML test results file is a well
5 formed and valid XML file based on a particular document type definition (DTD).

17. A system as recited in claim 15, wherein the XML reporter object further receives a key parameter related to the test result data from the application program.

10 18. A system as recited in claim 17, wherein the XML reporter object includes a test results hash table for storing key parameters related to the test results file.

15 19. A system as recited in claim 18, wherein the XML reporter object includes a file pointer tree having a plurality of nodes, each node referenced by a node pointer in the test results hash table.

20. A system as recited in claim 19, wherein each node stores a begin value and an end value related to a particular key, wherein the begin value indicates a file position after a corresponding beginning tag related to the particular key, and wherein the

end value corresponds to a file position after a corresponding ending tag related to the particular key.